Chapter 1 Answers

1.1. Converting from polar to Cartesian coordinates:

$\frac{1}{2}e^{j\pi} = \frac{1}{2}\cos\pi + j\frac{1}{2}\sin\pi = -\frac{1}{2}$. $\quad \frac{1}{2}e^{-j\frac{\pi}{2}} = \frac{1}{2}\cos(-\frac{\pi}{2}) + j\frac{1}{2}\sin(-\frac{\pi}{2}) = -\frac{j}{2}$

$e^{j\frac{\pi}{4}} = \cos(\frac{\pi}{4}) + j\sin(\frac{\pi}{4}) = \frac{1}{\sqrt{2}} + j\frac{1}{\sqrt{2}}$. $\quad e^{-j\frac{\pi}{2}} = \cos(\frac{\pi}{2}) + j\sin(\frac{\pi}{2}) = -j$

$e^{j\frac{\pi}{2}} = e^{j\frac{\pi}{4}} = j$. $\quad \sqrt{2}e^{j\frac{\pi}{4}} = \sqrt{2}\cos(\frac{\pi}{4}) + j\sqrt{2}\sin(\frac{\pi}{4}) = 1 + j$

$\sqrt{2}e^{j\frac{\pi}{4}} = \sqrt{2}e^{j\frac{\pi}{4}} = 1 + j$. $\quad \sqrt{2}e^{-j\frac{\pi}{4}} = \sqrt{2}e^{-j\frac{\pi}{4}} = 1 - j$

$\sqrt{2}e^{-j\frac{\pi}{4}} = 1 - j$

1.2. Converting from Cartesian to polar coordinates:

$2 = 2e^{j0}$. $\quad -2 = 2e^{j\pi}$. $\quad -2j = 2e^{-j\frac{\pi}{2}}$

$\frac{1}{2} - j\frac{\sqrt{3}}{2} = e^{-j\frac{\pi}{3}}$. $\quad 1 + j = \sqrt{2}e^{j\frac{\pi}{4}}$. $\quad (1 - j)^2 = 2e^{-j\frac{\pi}{2}}$

$j(1 - j) = e^{j\frac{\pi}{4}}$. $\quad \frac{1+j}{1-j} = e^{j\frac{\pi}{2}}$. $\quad \frac{(1+j)^{10}}{(1-j)^8} = e^{j\frac{\pi}{2}}$

1.3. (a) $E_{\infty} = \int_0^{\infty} e^{-2t}dt = \frac{1}{2}$. $P_{\infty} = 0$, because $E_{\infty} < \infty$.

(b) $x_2(t) = e^{j(2t-\frac{\pi}{4})}$, $|x_2(t)|^2 = 1$. Therefore, $E_{\infty} = \int_{-\infty}^{\infty} |x_2(t)|^2 dt = \int_{-\infty}^{\infty} dt = \infty$, $P_{\infty} =$

$\lim_{T\to\infty} \frac{1}{2T}\int_{-T}^{T} |x_2(t)|^2 dt = \lim_{T\to\infty} \frac{1}{2T}\int_{-T}^{T} dt = \lim_{T\to\infty} 1 = 1$.

(c) $x_3(t) = \cos(t)$. Therefore, $E_{\infty} = \int_{-\infty}^{\infty} |x_3(t)|^2 dt = \int_{-\infty}^{\infty} \cos^2(t) dt = \infty$.

$P_{\infty} = \lim_{T\to\infty} \frac{1}{2T}\int_{-T}^{T} \cos^2(t) dt = \lim_{T\to\infty} \frac{1}{2T}\int_{-T}^{T} \left(\frac{1+\cos(2t)}{2}\right) dt = \frac{1}{2}$

(d) $x_4[n] = \left(\frac{1}{2}\right)^n u[n]$, $|x_4[n]|^2 = \left(\frac{1}{2}\right)^{2n} u[n]$. Therefore, $E_{\infty} = \sum_{n=-\infty}^{\infty} |x_4[n]|^2 = \sum_{n=0}^{\infty} \left(\frac{1}{4}\right)^n = \frac{4}{3}$.

$P_{\infty} = 0$, because $E_{\infty} < \infty$.

(e) $x_5[n] = e^{j(\frac{\pi}{4}n - \frac{\pi}{2})}$, $|x_5[n]|^2 = 1$. Therefore, $E_{\infty} = \sum_{n=-\infty}^{\infty} |x_5[n]|^2 = \infty$.

$P_{\infty} = \lim_{N\to\infty} \frac{1}{2N+1}\sum_{n=-N}^{N} |x_5[n]|^2 = \lim_{N\to\infty} \frac{1}{2N+1}\sum_{n=-N}^{N} 1 = 1$.

(f) $x_6[n] = \cos(\frac{\pi}{4}n)$. Therefore, $E_{\infty} = \sum_{n=-\infty}^{\infty} |x_6[n]|^2 = \sum_{n=-\infty}^{\infty} \cos^2(\frac{\pi}{4}n) = \infty$.

$P_{\infty} = \lim_{N\to\infty} \frac{1}{2N+1}\sum_{n=-N}^{N} \cos^2(\frac{\pi}{4}n) = \lim_{N\to\infty} \frac{1}{2N+1}\sum_{n=-N}^{N} \left(\frac{1+\cos(\frac{\pi}{2}n)}{2}\right) = \frac{1}{2}$

1.4. (a) The signal $x(n)$ is shifted by 3 to the right. The shifted signal will be zero for $n < -1$ and $n > 7$.

(b) The signal $x(n)$ is shifted by 4 to the left. The shifted signal will be zero for $n < -8$ and $n > 0$.

1.5. (a) $\Re e\{x_1(t)\} = -2 = 2e^{j\pi}\cos(2t + \pi)$

(b) $\Re e\{x_2(t)\} = \sqrt{2}\cos(\frac{\pi}{4})\cos(3t + 2\pi) = \cos(3t) = e^{j0}\cos(3t + 0)$

(c) $\Re e\{x_3(t)\} = e^{-t}\sin(3t + \pi) = e^{-t}\cos(3t + \frac{\pi}{2})$

(d) $\Re e\{x_4(t)\} = -e^{-j\pi}\cos(1000t) = e^{-j\pi}\sin(1000t + \pi) = e^{-j\pi}\cos(1000t + \frac{\pi}{2})$

1.6. (a) $x_1(n)$ is a periodic complex exponential.

$$x_1(n) = je^{j\frac{\pi}{5}n} = e^{j(\frac{\pi}{5}n + \frac{\pi}{2})}$$

The fundamental period of $x_1(n)$ is $\frac{2\pi}{\frac{\pi}{5}} = 10$.

(b) $x_2(n)$ is a complex exponential multiplied by a decaying exponential. Therefore, $x_2(n)$ is not periodic.

(c) $x_3[n]$ is a periodic signal.

$$x_3[n] = e^{j\frac{\pi}{2}n} = e^{j\frac{\pi}{2}n}$$

$x_3[n]$ is a complex exponential with a fundamental period of $\frac{2\pi}{\frac{\pi}{2}} = 2$.

(d) $x_4[n]$ is a periodic signal. The fundamental period is given by $N = m(\frac{2\pi}{\frac{\pi}{10}}) = m(\frac{20}{1})$. By choosing $m = 1$, we obtain the fundamental period to be 20.

(e) $x_5[n]$ is not periodic. $x_5[n]$ is a complex exponential with $\omega_0 = 3/5$. We cannot find any integer m such that $m(\frac{2\pi}{\omega_0})$ is also an integer. Therefore, $x_5[n]$ is not periodic.

1.10.

$$x(t) = 2\cos(10t + 1) - \sin(4t - 1)$$

Period of first term is $\frac{2\pi}{10} = \frac{\pi}{5}$

Period of second term is $\frac{2\pi}{4} = \frac{\pi}{2}$

Therefore, the overall signal is periodic with a period which is the least common multiple of the periods of the first and second terms. That is equal to π.

1.11.

$$x[n] = 1 + e^{-j\frac{\pi}{2}n} - e^{j\frac{\pi}{4}n}$$

Period of the first term in the RHS = 1

Period of the second term in the RHS = $m(\frac{2\pi}{\frac{\pi}{2}}) = 4$ (when $m = 2$)

Period of the third term in the RHS = $m(\frac{2\pi}{\frac{\pi}{4}}) = 8$ (when $m = 1$)

Therefore, the overall signal $x[n]$ is periodic with a period which is the least common multiple of the periods of the three terms in $x[n]$. This is equal to 8.

1.12. The signal $x[n]$ is as shown in Figure S1.12. $x[n]$ can be obtained by flipping $u[n]$ and then shifting the flipped signal by 3 to the right. Therefore, $x[n] = u[-n + 3]$. This implies that $M = -1$ and $n_0 = -3$.

(c) The signal $x[n]$ is flipped. The flipped signal will be zero for $n < -4$ and $n > 2$.

(d) The signal $x[n]$ is flipped and the flipped signal is shifted by 2 to the right. This new signal will be zero for $n < -2$ and $n > 4$.

(e) The signal $x[n]$ is flipped and the flipped signal is shifted by 2 to the left. This new signal will be zero for $n < -6$ and $n > 0$.

1.13. (a) $x(3 - t)$ is obtained by flipping $x(t)$ and shifting the flipped signal by 3 to the right. Therefore, $x(1 - t)$ will be zero for $t > -2$.

(b) From (a), we know that $x(1 - t)$ is zero for $t > -2$. Similarly, $x(2 - t)$ is zero for $t > -1$. Therefore, $x(1 - t) + x(2 - t)$ will be zero for $t > -2$.

(c) $x(3t)$ is obtained by linearly compressing $x(t)$ by a factor of 3. Therefore, $x(3t)$ will be zero for $t < 1$.

(d) $x(t/3)$ is obtained by linearly stretching $x(t)$ by a factor of 3. Therefore, $x(t/3)$ will be zero for $t < 9$.

1.14. (a) $x_1(t)$ is not periodic because it is zero for $t < 0$.

(b) $x_2[n] = 1$ for all n. Therefore, it is periodic with a fundamental period of 1.

(c) $x_3[n]$ is as shown in the Figure S1.6.

Figure S1.6

Therefore, it is periodic with a fundamental period of 4.

1.15. (a)

$$E_{\infty}[x_1[n]] = \frac{1}{2}|x_1[n]| + x_1[-n]| = \frac{1}{2}|u[n] - u[n-4] + u[-n] - u[-n-4]| = |\delta[n] + \delta[n-1] + \delta[n-2] + \delta[n-3]|$$

Therefore, $E_{\infty}[x_1[n]]$ is zero for $|n| > 3$.

(b) Since $x_2(t)$ is an odd signal, $E_{\infty}[x_2(t)]$ is zero for all values of t.

(c)

$$E_{\infty}[x_3[n]] = \frac{1}{2}|x_3[n] + x_3[-n]| = \frac{1}{2}|(\frac{1}{2})^n u[n-3] - (\frac{1}{2})^{-n} u[-n-3]|$$

Therefore, $E_{\infty}[x_3[n]]$ is zero when $|n| < 3$ and when $|n| \to \infty$.

(d)

$$E_{\infty}[x_4(t)] = \frac{1}{2}|x_4(t) + x_4(-t)| = \frac{1}{2}|e^{-|t|}u(t+2) - e^{|t|}u(-t+2)|$$

Therefore, $E_{\infty}[x_4(t)]$ is zero only when $|t| \to \infty$.

Figure S1.12

1.16.

$$p(t) = \int_{-\infty}^{t} x(\tau)d\tau = \int_{-\infty}^{t} (\delta(\tau + 2) - \delta(\tau - 2))d\tau = \begin{cases} 0, & t < -2 \\ t, & -2 \le t \le 2 \\ 0, & t > 2 \end{cases}$$

Therefore,

$$E_{\infty} = \int_{-2}^{2} t^2 dt = 4$$

1.17. The signal $x(t)$ and its derivative $y(t)$ are shown in Figure S1.17.

Figure S1.17

Therefore,

$$y(t) = 2\sum_{n=-\infty}^{\infty} \delta(t - 2k) - 2\sum_{n=-\infty}^{\infty} \delta(t - 2k - 1)$$

This implies that $A_1 = 2$, $t_1 = 0$, $A_2 = -2$, and $t_2 = 1$.

1.18. (a) The signal $x_1[n]$, which is the input to S_2, is the same as $y_1[n]$. Therefore,

$$\begin{aligned} y_2[n] &= x_1[n-2] + \tfrac{1}{2}x_1[n-3] \\ &= y_1[n-2] + \tfrac{1}{2}y_1[n-3] \\ &= 2x_1[n-2] + 4x_1[n-3] + \tfrac{1}{2}(2x_1[n-3] + 4x_1[n-4]) \\ &= 3x_1[n-2] + 5x_1[n-3] + 2x_1[n-4] \end{aligned}$$

The input-output relationship for S is

$$y[n] = 3x[n-2] + 5x[n-3] + 2x[n-4]$$

Signals And Systems 2nd Edition Solutions Manual

Datta, Kanti Bhushan

Signals And Systems 2nd Edition Solutions Manual:

Solutions Manual Naveed Akhtar Malik,Syed Hamid Nawab,1983 **A Practical Approach to Signals and Systems** D. Sundararajan,2009-03-04 Concisely covers all the important concepts in an easy to understand way Gaining a strong sense of signals and systems fundamentals is key for general proficiency in any electronic engineering discipline and critical for specialists in signal processing communication and control At the same time there is a pressing need to gain mastery of these concepts quickly and in a manner that will be immediately applicable in the real word Simultaneous study of both continuous and discrete signals and systems presents a much easy path to understanding signals and systems analysis In A Practical Approach to Signals and Systems Sundararajan details the discrete version first followed by the corresponding continuous version for each topic as discrete signals and systems are more often used in practice and their concepts are relatively easier to understand In addition to examples of typical applications of analysis methods the author gives comprehensive coverage of transform methods emphasizing practical methods of analysis and physical interpretations of concepts Gives equal emphasis to theory and practice Presents methods that can be immediately applied Complete treatment of transform methods Expanded coverage of Fourier analysis Self contained starts from the basics and discusses applications Visual aids and examples makes the subject easier to understand End of chapter exercises with a extensive solutions manual for instructors MATLAB software for readers to download and practice on their own Presentation slides with book figures and slides with lecture notes A Practical Approach to Signals and Systems is an excellent resource for the electrical engineering student or professional to quickly gain an understanding of signal analysis concepts concepts which all electrical engineers will eventually encounter no matter what their specialization For aspiring engineers in signal processing communication and control the topics presented will form a sound foundation to their future study while allowing them to quickly move on to more advanced topics in the area Scientists in chemical mechanical and biomedical areas will also benefit from this book as increasing overlap with electrical engineering solutions and applications will require a working understanding of signals Compact and self contained A Practical Approach to Signals and Systems be used for courses or self study or as a reference book Continuous-Time Signals and Systems Oktay Alkin,2025-03-24 Drawing on author s 30 years of teaching experience Continuous Time Signals and Systems A MATLAB Integrated Approach represents a novel and comprehensive approach to understanding signals and systems theory Many textbooks use MATLAB as a computational tool but Alkin s text employs MATLAB both computationally and pedagogically to provide interactive visual reinforcement of fundamental concepts important in the study of continuous time signals and systems In addition to 210 traditional end of chapter problems and 168 solved examples the book includes hands on MATLAB modules consisting of 77 MATLAB based homework problems and projects coordinated with the traditional end of chapter problems 106 live scripts and GUI based interactive apps that animate key figures and bring core concepts to life Downloadable MATLAB code for most of the solved examples 64 fully

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relevant to engineering practice and equips students and practitioners alike with the basic principles necessary to apply DSP techniques to a variety of applications Chapters include worked examples problems and computer experiments helping students to absorb the material they have just read Lecture slides for all figures and solutions to the numerous problems are available to instructors **Theory of Vibration Protection** Igor A. Karnovsky,Evgeniy Lebed,2016-05-09 This text is an advancement of the theory of vibration protection of mechanical systems with lumped and distributed parameters The book offers various concepts and methods of solving vibration protection problems discusses the advantages and disadvantages of different methods and the fields of their effective applications Fundamental approaches of vibration protection which are considered in this book are the passive parametric and optimal active vibration protection The passive vibration protection is based on vibration isolation vibration damping and dynamic absorbers Parametric vibration protection theory is based on the Shchipanov Luzin invariance principle Optimal active vibration protection theory is based on the Pontryagin principle and the Krein moment method The book also contains special topics such as suppression of vibrations at the source of their occurrence and the harmful influence of vibrations on humans p Numerous examples which illustrate the theoretical ideas of each chapter are included This book is intended for graduate students and engineers It is assumed that a reader has working knowledge of theory of vibrations differential equations andcomplex analysis About the Authors Igor A Karnovsky Ph D Dr Sci is a specialist in structural analysis theory of vibration and optimal control of vibration He has 40 years of experience in research teaching and consulting in this field and is the author of more than 70 published scientific papers including two books in Structural Analysis published with Springer in 2010 2012 and three handbooks in Structural Dynamics published with McGraw Hill in 2001 2004 He also holds a number of vibration control related patents Evgeniy Lebed Ph D is a specialist in applied mathematics and engineering He has 10 years of experience in research teaching and consulting in this field The main sphere of his research interests are qualitative theory of differential equations integral transforms and frequency domain analysis with application to image and signal processing He is the author of 15 published scientific papers and a US patent 2015 *Solutions Manual to Accompany Physical Chemistry for the Life Sciences* C. A. Trapp,M. P. Cady,2011 This solutions manual contains fully worked solutions to all end of chapter discussion questions and exercises featured in Physical Chemistry for the Life Sciences

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